

Docket No. 1874.20001
-- PATENT --S P E C I F I C A T I O NTITLE OF THE INVENTION

METHOD AND SYSTEM OF PRODUCING A LANDSCAPE PLAN

BACKGROUND OF THE INVENTION5 1) Field of the Invention

This invention pertains to the field of landscape planning and, more particularly, to a method and system of producing a non-specific landscape plan.

2) Description of the Related Art

10 Landscape planning has been called the art of arranging the environment to support human behavior. Landscape plans are design drawings that show the boundaries, outlines, dimensions, contours, positions, and other characteristics of a defined area and its structures, remaining natural 15 vegetation, and plantings. When drawing a landscape plan, one draws a symbol for each plant, and identifies it by genus, species, and if applicable, variety.

Landscape plans are produced by landscape architects who are typically licensed in the state(s) in which they practice.

Docket No. 1874.20001
-- PATENT --

Most landscape architects have been through a college program of at least four years, and are required to pass a complex test that requires knowledge in many areas of landscaping. Typically, the landscape architect will be knowledgeable about 5 site planning, grading, drainage, hardscapes, irrigation systems, lighting and plant materials. As there are many differences in the trees, plants, shrubs, grasses, etc. that grow in different states and geographical regions, it is usually impractical for a landscape architect to be licensed 10 or practice in all states.

In many smaller communities, there may be no locally available landscape architect. Moreover, landscape planning can be relatively expensive, with fees of up to \$100/hour not uncommon.

15

Accordingly, it would be advantageous to provide an improved system and method of landscape design and producing landscape plans. It would also be advantageous to provide such a system and method which facilitates the production of 20 landscape plans from landscape architects licensed in and located in states which are remote from the property for which the plan is produced. It would be still further advantageous to provide such a system and method which facilitates the production of landscape plans by a landscape architect for

Docket No. 1874.20001
-- PATENT --

properties located in geographical areas with which the architect is unfamiliar. It would be still further advantageous to provide such a system and method which can reduce the costs of producing a landscape plan. Other and 5 further objects and advantages will appear hereinafter.

SUMMARY OF THE INVENTION

The present invention comprises a system and method of producing a landscape plan.

In one aspect of the invention, a process for producing a 10 landscape plan comprises creating a set of generic plant categories, assigning a unique symbol to each generic plant category, and producing the landscape plan by indicating locations for plants using said symbols.

In another aspect of the invention, a process for producing a landscape plan comprises creating a set of symbols 15 each corresponding to a generic landscape element, and producing the landscape plan by indicating locations for generic landscape elements using said symbols. Landscape elements include not only plants, but hardscape elements such 20 as retaining walls, sidewalks, driveways, patios, pools, ponds, etc.

Docket No. 1874.20001
-- PATENT --

In yet another aspect of the invention, a process for producing a landscape plan for a property comprises creating a set of generic plant categories, assigning a unique symbol to each generic plant category, communicating from a customer to a landscape architect a survey of the property, a photograph of the property, and a list of desired landscape characteristics for the property, and producing the landscape plan for the property, the landscape plan using the symbols to indicate locations where plants should be located.

10

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a flowchart for producing a landscape plan;
Figure 2 is an exemplary plat map for a property;
Figure 3 is an exemplary landscape plan according to one or more aspects of the present invention.

15

DESCRIPTION OF THE PREFERRED EMBODIMENTS

A preferred embodiment process for producing a landscape plan will be described now with respect to Figures 1-3. In the preferred embodiment process, a landscape architect communicates information with a customer via the Internet.

20 However, unique aspects and features of the present invention may be achieved even when communication between a landscape

Docket No. 1874.20001

-- PATENT --

architect and a customer is conducted entirely by telephone and/or regular mail.

Figure 1 illustrates a flowchart 100 for a preferred embodiment of a process for producing a landscape plan for a 5 property.

In a first step 110 a number of generic plant categories are defined. Generic plant categories may be defined based upon plant height, plant diameter or spread, leaf size (a.k.a. "texture"), and whether the plant is deciduous or evergreen.

10 In a preferred embodiment, plants are divided as shown in Table 1.

TABLE 1

TYPE	SIZE	LEAF TEXTURE
Shrub	< 36"	Small
Shrub	< 36"	Medium
Shrub	< 36"	Large
Shrub	36" to 72"	Small
Shrub	36" to 72"	Medium
Shrub	36" to 72"	Large
Shrub	> 72"	Small
Shrub	> 72"	Medium
Shrub	> 72"	Large
Tree	< 20'	---

Docket No. 1874.20001
-- PATENT --

TYPE	SIZE	LEAF TEXTURE
Tree	20' to 50'	---
Tree	> 50'	---

Moreover, the plants of Table 1 may be further divided into
deciduous plants, and evergreen plants to produce up to 24
5 generic plant categories. Thus, a number of predefined
generic plant categories are established.

In a second step 120, a unique symbol is assigned to each
generic plant category. The symbols may be geometric shapes,
such as triangles, circles, squares, hexagons, etc.
10 Alternatively, the symbols may be graphical images, such as a
generic tree image, a generic shrub image, etc. The symbols
are to be used in drawing the landscape plan to indicate where
various plants belonging to the generic plant categories
should be located on the property.

15 The symbols may have two variations, one for indicating
an evergreen plant and a second for indicating a deciduous
plant. In a preferred embodiment, a letter "E" or "D" may be
associated with each symbol to indicate whether a plant is an
evergreen or deciduous, respectively.

Docket No. 1874.20001
-- PATENT --

In a third step 130, unique symbols are assigned to materials used for various hardscape elements. Hardscape elements may include retaining walls, sidewalks, driveways, patios, pools, ponds, etc. A unique symbol may be assigned 5 for each different material, such as brick, stone, concrete, asphalt, etc. In the preferred embodiment process, landscape plans are produced which do not specify a specific type, color, or pattern of the materials used.

Thus, through the steps 110-130, a set of symbols is 10 created, with each symbol corresponding to a generic landscape element, where a generic landscape element may be a plant or a hardscape element.

In a fourth step 140, a customer communicates to a landscape architect customer information and information 15 regarding a property for which the customer wants a landscape plan to be prepared.

In a preferred embodiment, the customer contacts the landscape architect via a user computer connected to a landscape plan Web site. In that case, the Web site may 20 transmit to the customer's computer a customer information questionnaire, including data entry boxes for the customer to enter his/her name and contact information, such as mailing

Docket No. 1874.20001
-- PATENT --

address, fax number, e-mail address, etc. Preferably, the customer information questionnaire includes one or more data entry boxes for the customer to supply billing information, such as a credit card number and expiration date.

5 The customer completes the customer information questionnaire and transmits the completed customer information questionnaire back to the landscape plan Web site. Alternatively, the customer may manually fill out the customer information questionnaire and send it by mail or fax back to
10 an address or fax number supplied by the landscape plan Web site.

The landscape plan Web site also transmits to the customer's computer a property information questionnaire, including questions regarding features or characteristics
15 which the customer desires in the landscape plan. Preferably, the property information questionnaire includes a list of various elements (e.g., pool, deck, retaining walls, sidewalks, driveway, lighting, drainage, plants, etc.) and the user clicks on boxes next to each desired element.

20 The customer completes the property information questionnaire and transmits the completed property information questionnaire back to the landscape plan Web site.

Docket No. 1874.20001
-- PATENT --

Alternatively, the customer may manually fill out the property information questionnaire and send it by mail or fax back to an address or fax number supplied by the landscape plan Web site.

5 In the preferred embodiment, the landscape plan Web site transmits an instructions Web page to the customer's computer listing additional information which the customer needs to furnish for the landscape plan to be produced. The customer is instructed to supply a property survey or plat map, and at 10 least one photograph of the property. Figure 2 shows an exemplary plat map which may be supplied by a customer. Preferably, the instructions Web page also includes instructions for the customer to take pictures of the property, describing the preferred vantage points and how the 15 pictures should be ordered or labeled. The Web site may also transmit to the customer an e-mail address where the customer may send the required information regarding the property, including the property survey and photographs. Alternatively, the customer may send the required information regarding the 20 property, including the property survey and photographs, by mail or fax back to an address or fax number supplied by the landscape plan Web site.

Docket No. 1874.20001
-- PATENT --

In a fifth step 150, the landscape architect produces a generic landscape plan for the property from the property survey and the photographs. Figure 3 shows an exemplary landscape plan 300 produced using symbols to represent 5 landscape elements such as generic plant categories. The landscape plan 300 includes a plurality of landscape elements, each shown as a unique symbol. For example, the landscape plan includes a basic symbol for each plant, indicating its location on the property and a generic plant category to which 10 the plant belongs. Similarly, the landscape plan shows the location, size, and shape of various hardscape elements, and uses symbols to indicate a general type of material to be used (e.g., "brick"), but does not specify the exact material by color, pattern, etc.

15 In a preferred embodiment, the landscape plan includes a legend identifying the meaning of each symbol included on the plan. Preferably, the landscape plan also includes some general notes that may further assist the user to select the particular plants and materials to be used to implement the 20 landscape plan (e.g., information on desired flower colors, fragrances, etc.)

Also, in a preferred embodiment, the landscape plan has associated therewith a list of plants that belong to the each

Docket No. 1874.20001

--- PATENT ---

of the generic plant categories identified by a symbol on the landscape plan. In a preferred embodiment, the landscape plan Web site includes a general list of plants that belong to the each of the generic plant categories. The list may also 5 include pictures of some or all of the plants. The list may be used by the customer to help choose an appropriate plant based upon the symbols indicated on the landscape plan, even though some or all of the plants may be unavailable in the area where the customer's property is located.

10 In a step 160, the landscape architect communicates the landscape plan to the customer. In a preferred embodiment, the landscape plan is sent to an e-mail address specified by the customer in the step 140 above. Alternatively, the landscape plan Web site may include individual Web pages for 15 each customer to log-in and retrieve their landscape plan. Or the landscape plan may be sent by regular mail or facsimile to the customer.

When the customer receives the landscape plan, he/she can take it to a local nursery and/or building material supply 20 center to select the particular plants and materials to be used to implement the landscape plan. The symbols will guide the customer to selecting appropriate plants and materials.

Docket No. 1874.20001
-- PATENT --

Through the present invention, many benefits are possible. A plan may be produced by a landscape architect operating in a distant region of the country from where a property is located, even when the landscape architect is 5 completely unfamiliar with exactly what plants are available in the area. Moreover, because the landscape architect does not have to specify particular plants and hardscape materials, the cost of preparing the landscape plan can be significantly reduced.

10 While preferred embodiments are disclosed herein, many variations are possible which remain within the concept and scope of the invention. Such variations would become clear to one of ordinary skill in the art after inspection of the specification, drawings and claims herein. The invention 15 therefore is not to be restricted except within the spirit and scope of the appended claims.